

Getting Started with Evalglare

Abstract

The following tutorial will help the users to get started with using Evalglare as a glare analysis method in order to produce a sustainable daylighting design with minimum glare.




Evalglare is a program that automatically detects glare sources within a ± 180 degree fish-eye scene, given in the Radiance image format (.pic or .hdr). Evalglare is a program developed by the Fraunhofer-Institute for solar energy system, the same Institute that developed the Radiance program. As Evalglare is a program based on Radiance, users need to understand how to use Radiance. Users will be able to find articles on Radiance on the BIM wiki website, or they can go to the Fraunhofer ISE website (<http://www.ise.fraunhofer.de/en/areas-of-business-and-market-areas/applied-optics-and-functional-surfaces/lighting-technology/lighting-simulations/radiance//radiance>) for more information on Radiance. Users will also be able to find and download the latest Evalglare program on the official website.

Step 1

Click on “evalglare v 1.0 – Windows Version” at the bottom of the page.

→ [evalglare v 1.0 - Windows Version](#)

You will be able to download a zip file which will include the application you can install on your computer and a documentation that will explain how to set each parameter.

Name	Type	Compressed size
 copyright	Text Document	2 KB
 documentation_v1.0	Adobe Acrobat Document	54 KB
 evalglare	Application	117 KB

Step 2

A step by step tutorial on how to use Evalglare was developed by Harvard Graduate School of Design and can be found online

(http://www.gsd.harvard.edu/research/gsdsgsquare/Publications/HDR_III_Evalglare.pdf).

Step 3

Now you can use Evalglare to analyze possible glare problem for your daylighting design!